

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: Unknown)
Filing Date: Unknown)
Priority Date: 15 November 2000)
Applicants: BALDOCK, Mark R.)
For: BROADCAST DATA RECEIVER)

PRELIMINARY AMENDMENT

Director For Patents
Box: New Application
Washington, D.C. 20231

Dear Sir:

This is a preliminary amendment to the enclosed application entitled "Broadcast Data Receiver" claiming priority to British Patent Application No. 0027812.7 filed 15 November 2000.

In the Specification:

Please amend the specification as follows:

Page 1, after the title, insert the following headers and paragraph:

--CROSS-REFERENCE TO RELATED APPLICATION

This application claims priority to British Patent Application No. 0027812.7 filed 15 November 2000.

BACKGROUND OF THE INVENTION-

Page 2, before line 9, insert the Header:

--SUMMARY OF THE INVENTION-

Page 4, before line 6 insert the following header:

--BRIEF DESCRIPTION OF THE DRAWINGS--

Page 4, before line 11, add the Header:

--DESCRIPTION OF THE PREFERRED EMBODIMENTS--

Page 4, line 14, change "programme" to --program--.

Page 5, line 7, change "programme" to --program--.

Page 6, line 2, after "can" insert --be--.

Page 7 after the last line, insert the following paragraph:

--While the invention has been described with a certain degree of particularity, it is manifest that many changes may be made in the details of construction and the arrangement of components without departing from the spirit and scope of this disclosure. It is understood that the invention is not limited to the embodiments set forth herein for purposes of exemplification, but is to be limited only by the scope of the attached claim or claims, including the full range of equivalency to which each element thereof is entitled.--

IN THE CLAIMS:

1. (Amended) A television system, [including] said system comprising:

a display screen[,];

speakers;

data streams being broadcast and transmitted on radio frequency carriers at different frequencies and said data corresponding to a number of different user selectable, channels and/or services; and

a broadcast data receiver [(BDR)] for receiving digital data carried in data streams from one or more broadcaster(s) via satellite, terrestrial or cable transmission systems, [said data

streams being broadcast and transmitted on radio frequency (RF) carriers at different frequencies and said data corresponding to a number of different user selectable, channels and/or services and] said [BDR] broadcast data receiver including:

means for selectively processing and generating audio, video and/or auxiliary information from said data streams in response to user selections, [said BDR]; and [having two or more]

at least two tuners for tuning to the required data carrier frequencies to receive data relating to at least two [or more] channels or services as and when required [and characterized in that] wherein when at least one of the at least two tuners is not in use [the said at least one] another tuner is operated to scan through the data carrier frequency bandwidth to allow the [BDR] broadcast data receiver to identify and receive system service information [(SI)].

2. (Amended) A system according to claim 1[, characterized in that the] wherein said service information for which [the] at least one tuner is used to scan relates to television and/or radio channel identification information [comprising] including audio, video and/or auxiliary data.
3. (Amended) A system according to claim 1 [characterized in that the] wherein said service information relates to information relating to a new channel.
4. (Amended) A system according to claim 1 [characterized in that the] wherein said service information relates to information for known channels or services.

5. (Amended) A system according to claim 1 [characterized in that the] wherein said service information retrieved by [the] said at least one tuner is stored in memory means of [the BDR] said broadcast data receiver.

6. (Amended) A system according to claim 1 [characterized in that if the] wherein when said service information retrieved includes information for a new channel or service which has been identified since the previous scan, a message or symbol is displayed visually and/or audibly to inform the user of [the] said television system of the new channel or service.

7. (Amended) A system according to claim 1 [characterized in that if the] wherein when said at least one tuner is scanning for service information and is required to receive a designated data stream, in response to a user selection, the scanning is suspended and [the] said at least one tuner is made available for [the] said data stream.

8. (Amended) A system according to claim 7 [characterised in that the] wherein scanning [is] may be resumed when [the] at least one tuner [is] no longer [required to] receives said data stream and there are no other pending tuning requirements.

9. (Amended) A broadcast data receiver [BDR] for receiving data [comprising] having video, audio and/or auxiliary data, said [BDR incorporating] broadcast data receiver comprising:
first and second tuners, each tuner controlled to tune to a specified radio frequency to allow [the BDR] said broadcast data receiver to receive a designated data carrier[, said data carrier] having frequencies selected and controlled by [the BDR] said broadcast data receiver in

response to a user selection, and [characterized in that] wherein when at least one of said first [or] and second tuners [are] is not in use to tune to a specific frequency for a particular data carrier, said tuner is controlled to scan through the data carrier frequency bandwidth to identify and retrieve service information [(SI)].

10. (Amended) A broadcast data receiver according to claim 9 [characterized in that the] wherein said scanning operates continuously when [the] said at least one tuner is available.

11. (Amended) A broadcast data receiver according to claim 9 [characterized in that the] wherein said scanning operates at spaced time intervals.

REMARKS

Attached is the clean version of the claims and new paragraphs as required in Section 1.121(4) (ii).

The application should now be in condition for examination, which is respectfully requested.

Respectfully Submitted

HEAD, JOHNSON & KACHIGIAN

Dated:

November 14 October 2001

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[illegible]

~~---CROSS-REFERENCE TO RELATED APPLICATION~~

This application claims priority to British Patent Application No.

BACKGROUND OF THE INVENTION

Header to be inserted into Page 2

SUMMARY OF THE INVENTION

Headers to be Inserted into Page 4:

BRIEF DESCRIPTION OF THE DRAWINGS

DESCRIPTION OF THE PREFERRED EMBODIMENTS

Replacement Paragraph to be Inserted into page 4:

Many broadcast receivers are now provided with multiple tuners to allow the generation of more than one television channel by the BDR at any particular time. This allows a user, for example, to watch one channel whilst using the BDR to record a program from a different channel, for subsequent viewing.

Replacement Paragraph to be Inserted into Page 5:

Figure 1 illustrates the BDR 2 in use with both tuners in use. Tuner A is tuned to frequency A to receive data for a program for viewing on display screen 6. Tuner B is tuned to frequency B to receive data for storage in memory means (not shown) in the BDR 2. In this case tuners A and B are occupied

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Replacement Paragraph to be Inserted into Page 6:

channel hopping to and from different channels. The pre-determined time period can be typically defined by the broadcaster or manufacturer of the BDR.

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New Paragraph for Page 7 to be Inserted After the Last Line:

While the invention has been described with a certain degree of particularity, it is manifest that many changes may be made in the details of construction and the arrangement of components without departing from the spirit and scope of this disclosure. It is understood that the invention is not limited to the embodiments set forth herein for purposes of exemplification, but is to be limited only by the scope of the attached claim or claims, including the full range of equivalency to which each element thereof is entitled.

Clean Version of the Claims

1. (Amended) A television system, said system comprising:

a display screen;

speakers;

data streams being broadcast and transmitted on radio frequency carriers at different frequencies and said data corresponding to a number of different user selectable, channels and/or services; and

a broadcast data receiver for receiving digital data carried in data streams from one or more broadcaster(s) via satellite, terrestrial or cable transmission systems, said broadcast data receiver including:

means for selectively processing and generating audio, video and/or auxiliary information from said data streams in response to user selections; and

at least two tuners for tuning to the required data carrier frequencies to receive data relating to at least two channels or services as and when required wherein when at least one of the at least two turners is not in use another turner is operated to scan through the data carrier frequency bandwidth to allow the broadcast data receiver to identify and receive system service information.

2. (Amended) A system according to claim 1 wherein said service information for which at least one tuner is used to scan relates to television and/or radio channel identification information including audio, video and/or auxiliary data.

3. (Amended) A system according to claim 1 wherein said service information relates to information relating to a new channel.

4. (Amended) A system according to claim 1 wherein said service information relates to information for known channels or services.

5. (Amended) A system according to claim 1 wherein said service information retrieved by said at least one tuner is stored in memory means of said broadcast data receiver.

6. (Amended) A system according to claim 1 wherein when said service information retrieved includes information for a new channel or service which has been identified since the previous scan, a message or symbol is displayed visually and/or audibly to inform the user of said television system of the new channel or service.

7. (Amended) A system according to claim 1 wherein when said at least one tuner is scanning for service information and is required to receive a designated data stream, in response to a user selection, the scanning is suspended and said at least one tuner is made available for said data stream.

8. (Amended) A system according to claim 7 wherein scanning may be resumed when at least one tuner no longer receives said data stream and there are no other pending tuning requirements.

9. (Amended) A broadcast data receiver for receiving data having video, audio and/or auxiliary data, said broadcast data receiver comprising:

first and second tuners, each tuner controlled to tune to a specified radio frequency to allow said broadcast data receiver to receive a designated data carrier having frequencies selected and controlled by said broadcast data receiver in response to a user selection, and wherein when at least one of said first and

second tuners is not in use to tune to a specific frequency for a particular data carrier, said tuner is controlled to scan through the data carrier frequency bandwidth to identify and retrieve service information.

10. (Amended) A broadcast data receiver according to claim 9 wherein said scanning operates continuously when said at least one tuner is available.

11. (Amended) A broadcast data receiver according to claim 9 wherein said scanning operates at spaced time intervals.

Replacement Paragraph to be Inserted into Page 5:

Figure 1 illustrates the BDR 2 in use with both tuners in use. Tuner A is tuned to frequency A to receive data for a program for viewing on display screen 6. Tuner B is tuned to frequency B to receive data for storage in memory means (not shown) in the BDR 2. In this case tuners A and B are occupied

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